LAB Assignment- Solution

1. Create table **EMPLOYEE** with the following details.

FIELD NAME	TYPE
EMPLOYEE_ID	NUMBER (6)
LAST_NAME	VARCHAR2(25)
JOB_ID	VARCHAR2(10)
SALARY	NUMBER (8,2)
COMM_PCT	NUMBER (4,2)
MGR_ID	NUMBER (6)
DEPARTMENT_ID	NUMBER (4)

```
mysql> use anudip99;
mysql> create table employee(emp_id int(6), last_name varchar(25), job_id varchar(10), salary int(8),
comm_pct int(4), mgr_id int(6), dept_id int(4));
Query OK, 0 rows affected, 5 warnings (0.10 sec)

mysql> show tables;
+-----------------------+
| Tables_in_anudip99 |
+-----------------------+
| employee                |
+-----------------------+
```

2. Insert the following data into **EMPLOYEE** table.

EMPLOYEE_ID	LAST_NAME	JOB_ID	SALARY	COMM_PCT	MGR_ID	DEPARTMENT_ID
198	Connell	SH_CLERK	2600	2.5	124	50
199	Grant	SH_CLERK	2600	2.2	124	50
200	Whalen	AD_ASST	4400	1.3	101	10
201	Hartstein	IT_PROG	6000	null	100	20
202	Fay	AC_MGR	6500	null	210	20
203	Mavris	AD_VP	7500	null	101	40
204	Baer	AD_PRES	3500	1.5	101	90
205	Higgins	AC_MGR	2300	null	101	60

206	Gitz	IT_PROG	5000	null	103	60
100	King	AD_ASST	8956	0.3	108	100
101	Kochar	SH_CLERK	3400	1.3	118	30

```
mysql> insert into employee values(199, 'Grant', 'SH_CLERK', 2600, 2.2, 124, 50),
(200, 'Whalen', 'AD_ASST', 4400, 1.3, 101, 10),
(201, 'Hartstein', 'IT_PROG', 6000, null, 100, 20),
(202, 'Fay', 'AC_MGR', 6500, null, 210, 20),
(203, 'Mavris', 'AD_VP', 7500, null, 101, 40),
(204, 'Baer', 'AC_PRES', 3500, 1.5, 101, 90),
(205, 'Higgins', 'AC_MGR', 2300, null, 101, 60),
(206, 'Gitz', 'IT_PROG', 5000, null, 103, 60),
(100, 'King', 'AD_ASST', 8956, 0.3, 108, 100),
(101, 'Kochar', 'SH_CLERK', 3400, 1.3, 118, 30);
Query OK, 10 rows affected (0.03 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql> select * from employee;
+--------+-----------+---------------+--------+-------------+---------+---------+
| emp_id | last_name |  job_id       | salary | comm_pct | mgr_id | dept_id |
+--------+-----------+---------------+--------+-------------+---------+---------+
|   198  | Connell   | SH_CLERK |  2600 |      3       |   124  |    50   |
|   199  | Grant     | SH_CLERK |  2600 |      2       |   124  |    50   |
|   200  | Whalen    | AD_ASST  |  4400 |      1       |   101  |    10   |
|   201  | Hartstein | IT_PROG  |  6000 |    NULL      |   100  |    20   |
|   202  | Fay       | AC_MGR   |  6500 |    NULL      |   210  |    20   |
|   203  | Mavris    | AD_VP    |  7500 |    NULL      |   101  |    40   |
|   204  | Baer      | AC_PRES  |  3500 |      2       |   101  |    90   |
|   205  | Higgins   | AC_MGR   |  2300 |    NULL      |   101  |    60   |
|   206  | Gitz      | IT_PROG  |  5000 |    NULL      |   103  |    60   |
|   100  | King      | AD_ASST  |  8956 |      0       |   108  |   100   |
|   101  | Kochar    | SH_CLERK |  3400 |      1       |   118  |    30   |
+--------+-----------+----------+-------+--------------+--------+---------+
11 rows in set (0.00 sec)
```

3. Display last_name, job_id, employee_id for each employee with employee_id appearing first.

```
mysql> select emp_id as employee_id, last_name, job_id,emp_id from
employee;
```

```
+--------------+------------+---------------+---------+
| employee_id | last_name |      job_id      | emp_id |
+--------------+------------+---------------+---------+
|        198       | Connell     | SH_CLERK |    198    |
|        199       | Grant       | SH_CLERK |    199    |
|        200       | Whalen     | AD_ASST    |    200    |
|        201       | Hartstein  | IT_PROG     |    201    |
|        202       | Fay           | AC_MGR     |    202    |
|        203       | Mavris     | AD_VP         |    203    |
|        204       | Baer         | AC_PRES    |    204    |
|        205       | Higgins    | AC_MGR     |    205    |
|        206       | Gitz          | IT_PROG     |    206    |
|        100       | King         | AD_ASST    |    100    |
|        101       | Kochar     | SH_CLERK |    101    |
+--------------+------------+---------------+---------+
11 rows in set (0.00 sec)
```

4. Display the details of all employees of department 60.

```
mysql> select * from employee where dept_id=60;
+---------+------------+--------------+--------+-------------+---------+----------+
| emp_id | last_name |    job_id     |  salary | comm_pct | mgr_id | dept_id |
+---------+------------+--------------+--------+-------------+---------+----------+
|   205    | Higgins    | AC_MGR |   2300 |    NULL    |    101   |     60     |
|   206    | Gitz          | IT_PROG |   5000 |    NULL    |    103   |     60     |
+---------+------------+--------------+--------+-------------+---------+----------+
2 rows in set (0.00 sec)
```

5. Display the employee details of the employee who's last_name is King.

```
mysql> select * from employee where last_name='King';
+---------+-------------+-------------+--------+-------------+----------+----------+
| emp_id | last_name  |    job_id    | salary  | comm_pct | mgr_id  | dept_id  |
+---------+-------------+-------------+--------+-------------+----------+----------+
|   100    |    King       | AD_ASST |   8956 |       0       |    108    |     100    |
+---------+-------------+--------------+--------+-------------+----------+----------+
1 row in set (0.00 sec)
```

6. Display unique job_id from **EMPLOYEE** table. Give the alias name to the column as JOB_TITLE.

```
mysql> select job_id as JOB_TITLE from employee;
+---------------+
| JOB_TITLE  |
+---------------+
| SH_CLERK  |
| SH_CLERK  |
| AD_ASST    |
| IT_PROG    |
| AC_MGR    |
| AD_VP       |
| AC_PRES    |
| AC_MGR    |
| IT_PROG    |
| AD_ASST    |
| SH_CLERK  |
+---------------+
11 rows in set (0.00 sec)
```

7. Display last_name, salary and salary increase of Rs300. Give the new column name as ‘Increased Salary’.

```
mysql> select last_name, salary, salary+300 as 'Increased Salary' from employee;
+------------+--------+-------------------+
| last_name | salary | Increased Salary |
+------------+--------+-------------------+
| Connell    |   2600  |            2900      |
| Grant      |   2600  |            2900      |
| Whalen    |   4400  |            4700      |
| Hartstein |   6000  |            6300      |
| Fay         |   6500  |            6800      |
| Mavris    |   7500  |            7800      |
| Baer       |   3500  |            3800      |
| Higgins   |   2300  |            2600      |
| Gitz        |   5000  |            5300      |
| King       |   8956  |            9256      |
| Kochar    |   3400  |            3700      |
+------------+--------+-------------------+
11 rows in set (0.03 sec)
```

8. Display last_name, salary and **annual** compensation of all employees, plus a one time bonus of Rs 100. Give an alias name to the column displaying annual compensation.

```
mysql> select last_name, salary, (salary+300)*12+100 as 'Annual Compensation'
from employee;
+------------+--------+--------------------------+
| last_name | salary | Annual Compensation |
+------------+--------+--------------------------+
| Connell    |   2600 |              34900            |
| Grant       |   2600 |              34900            |
| Whalen    |   4400 |              56500            |
| Hartstein |   6000 |              75700            |
| Fay          |   6500 |              81700            |
| Mavris     |   7500 |              93700            |
| Baer        |   3500 |              45700            |
| Higgins   |   2300 |              31300            |
| Gitz         |   5000 |              63700            |
| King        |   8956 |             111172            |
| Kochar    |   3400 |              44500            |
+-----------+--------+--------------------------+
11 rows in set (0.00 sec)
```

9. Display the details of those employees who get commission.
10. Display the details of those employees who do not get commission.
11. Display the Employee_id, Department_id and Salary all employees whose salary is greater than 5000.

```
mysql> select emp_id, dept_id, salary from employee where salary>5000;
+---------+---------+--------+
| emp_id | dept_id | salary |
+---------+---------+--------+
|    201    |      20    |   6000 |
|    202    |      20    |   6500 |
|    203    |      40    |   7500 |
|    100    |     100   |   8956 |
+---------+---------+---------+
4 rows in set (0.00 sec)
```

12. Display the Last_Name and Salary of all employees whose salary is between 4000 and 7000.

```
mysql> select last_name, salary from employee where salary between 4000 and 7000;
+------------+--------+
| last_name | salary  |
+------------+--------+
| Whalen     |   4400 |
| Hartstein  |   6000 |
| Fay        |   6500 |
| Gitz       |   5000 |
+------------+---------+
4 rows in set (0.00 sec)
```

13. Display the details of all employees whose salary is either 6000 or 6500 or 7000.

```
mysql> select * from employee where salary=6000 or salary =6500 or salary=7000;
+---------+------------+------------+---------+------------+---------+----------+
| emp_id | last_name  | job_id      |  salary  | comm_pct | mgr_id | dept_id |
+---------+------------+------------+---------+------------+---------+----------+
|   201   | Hartstein  | IT_PROG |   6000 |    NULL   |   100   |     20   |
|   202   | Fay        | AC_MGR  |   6500 |    NULL   |   210   |     20   |
+---------+------------+-------------+---------+-----------+----------+---------+
2 rows in set (0.00 sec)
```

14. Display the details of all those employees who work either in department 10 or 20 or 30 or 50.

```
mysql> select * from employee where dept_id=10 or dept_id=20 or dept_id=30 or
dept_id=50;
+--------+-----------+----------+--------+----------+--------+---------+
| emp_id | last_name | job_id   | salary | comm_pct | mgr_id | dept_id |
+--------+-----------+----------+--------+----------+--------+---------+
|   198 | Connell   | SH_CLERK |   2600 |        3 |    124 |      50 |
|   199 | Grant     | SH_CLERK |   2600 |        2 |    124 |      50 |
|   200 | Whalen    | AD_ASST  |   4400 |        1 |    101 |      10 |
|   201 | Hartstein | IT_PROG  |   6000 |     NULL |    100 |      20 |
|   202 | Fay       | AC_MGR   |   6500 |     NULL |    210 |      20 |
|   101 | Kochar    | SH_CLERK |   3400 |        1 |    118 |      30 |
+--------+-----------+----------+--------+----------+--------+---------+
6 rows in set (0.00 sec)
```

15. Display the details of all employees whose salary is not equal to 5000.

```
mysql> select * from employee where not salary=5000;

+--------+-----------+---------------+--------+------------+---------+---------+
| emp_id | last_name |     job_id    | salary | comm_pct | mgr_id | dept_id |
+--------+-----------+---------------+--------+------------+---------+---------+
|   198  | Connell   | SH_CLERK |  2600 |      3      |   124  |    50   |
|   199  | Grant     | SH_CLERK |  2600 |      2      |   124  |    50   |
|   200  | Whalen    | AD_ASST  |  4400 |      1      |   101  |    10   |
|   201  | Hartstein | IT_PROG  |  6000 |    NULL     |   100  |    20   |
|   202  | Fay       | AC_MGR   |  6500 |    NULL     |   210  |    20   |
|   203  | Mavris    | AD_VP    |  7500 |    NULL     |   101  |    40   |
|   204  | Baer      | AC_PRES  |  3500 |      2      |   101  |    90   |
|   205  | Higgins   | AC_MGR   |  2300 |    NULL     |  101   |    60   |
|   100  | King      | AD_ASST  |  8956 |      0      |   108  |   100   |
|   101  | Kochar    | SH_CLERK |  3400 |      1      |   118  |    30   |
+--------+-----------+---------------+--------+------------+---------+---------+
10 rows in set (0.00 sec)
```

16. Display the details of all the CLERKS working in the organization.

```
mysql> select * from employee where job_id='SH_CLERK';

+--------+-----------+---------------+--------+------------+---------+---------+
| emp_id | last_name |     job_id    | salary | comm_pct | mgr_id | dept_id |
+--------+-----------+---------------+--------+------------+---------+---------+
|   198  | Connell   | SH_CLERK |  2600 |      3      |   124  |    50   |
|   199  | Grant     | SH_CLERK |  2600 |      2      |   124  |    50   |
|   101  | Kochar    | SH_CLERK |  3400 |      1      |   118  |    30   |
+--------+-----------+---------------+--------+------------+---------+---------+
3 rows in set (0.01 sec)
```

17. Update the job_id's of the employees who earn more than 5000 to Grade_A. Display the table **EMPLOYEE** after updating.

```
mysql> update employee set job_id='Grade_A' where salary>5000;
Query OK, 4 rows affected (0.03 sec)
Rows matched: 4  Changed: 4  Warnings: 0
```

mysql> select * from employee;

```
+--------+------------+--------------+--------+------------+--------+---------+
| emp_id | last_name  |    job_id    | salary | comm_pct | mgr_id | dept_id |
+--------+------------+--------------+--------+------------+--------+---------+
|   198  | Connell    | SH_CLERK |  2600 |      3     |   124  |    50   |
|   199  | Grant      | SH_CLERK |  2600 |      2     |   124  |    50   |
|   200  | Whalen     | AD_ASST  |  4400 |      1     |   101  |    10   |
|   201  | Hartstein  | Grade_A  |  6000 |    NULL    |   100  |    20   |
|   202  | Fay        | Grade_A  |  6500 |    NULL    |   210  |    20   |
|   203  | Mavris     | Grade_A  |  7500 |    NULL    |   101  |    40   |
|   204  | Baer       | AC_PRES  |  3500 |      2     |   101  |    90   |
|   205  | Higgins    | AC_MGR   |  2300 |    NULL    |   101  |    60   |
|   206  | Gitz       | IT_PROG  |  5000 |    NULL    |   103  |    60   |
|   100  | King       | Grade_A  |  8956 |      0     |   108  |   100   |
|   101  | Kochar     | SH_CLERK |  3400 |      1     |   118  |    30   |
+--------+------------+--------------+--------+------------+--------+---------+
11 rows in set (0.00 sec)
```

18. Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.

mysql> select * from employee where job_id='SH_CLERK' or job_id='IT_PROG' or job_id='AD_ASST';

```
+--------+------- ---+--------------+--------+------------+--------+---------+
|emp_id|last_name|      job_id    | salary |comm_pct| mgr_id |dept_id |
+--------+----------+--------------+--------+------------+--------+---------+
|   198  | Connell  |SH_CLERK |  2600|      3     |   124  |    50   |
|   199  | Grant    |SH_CLERK |  2600 |      2     |   124  |    50   |
|   200  | Whalen   |AD_ASST  |  4400 |      1     |   101  |    10   |
|   206  | Gitz     |IT_PROG  |  5000 |    NULL    |   103  |    60   |
|   101  | Kochar   |SH_CLERK |  3400 |      1     |   118  |    30   |
+--------+----------+--------------+--------+------------+--------+---------+
5 rows in set (0.00 sec)
```

19. Display those employees from the **EMPLOYEE** table whose designation is CLERK and salary is less than 3000.

```
mysql> select * from employee where job_id='SH_CLERK' and salary<3000;

+---------+-----------+--------------+--------+-------------+---------+---------+
| emp_id | last_name |    job_id    | salary | comm_pct | mgr_id | dept_id |
+---------+-----------+--------------+--------+-------------+---------+---------+
|   198   | Connell   | SH_CLERK |  2600 |       3        |   124   |     50  |
|   199   | Grant     | SH_CLERK |  2600 |       2        |   124   |     50  |
+---------+-----------+--------------+--------+-------------+---------+---------+
2 rows in set (0.00 sec)
```

20. Display those employees Last_Name, Mgr_id from the **EMPLOYEE** table whose salary is above 3000 and work under Manager 101.

```
mysql> select * from employee where job_id='SH_CLERK';

+---------+-----------+--------------+--------+-------------+---------+---------+
| emp_id | last_name |    job_id    | salary | comm_pct | mgr_id | dept_id |
+---------+-----------+--------------+--------+-------------+---------+---------+
|   198   | Connell   | SH_CLERK |  2600 |       3        |   124   |     50  |
|   199   | Grant     | SH_CLERK |  2600 |       2        |   124   |     50  |
|   101   | Kochar    | SH_CLERK |  3400 |       1        |   118   |     30  |
+---------+-----------+--------------+--------+-------------+---------+---------+
3 rows in set (0.01 sec)
```